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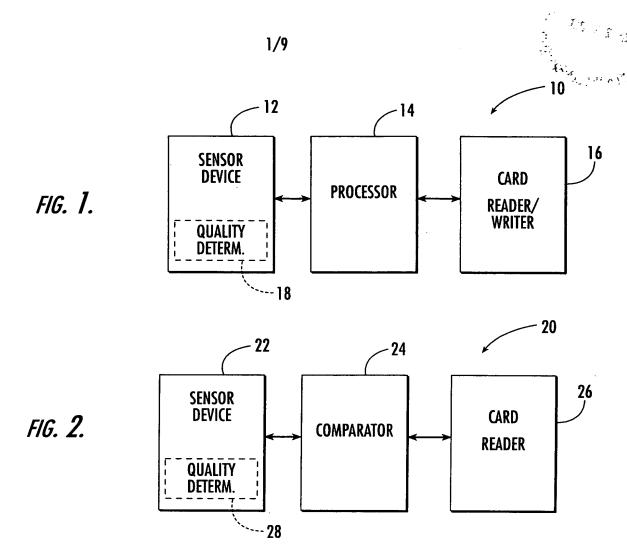
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34

FIG. 3.

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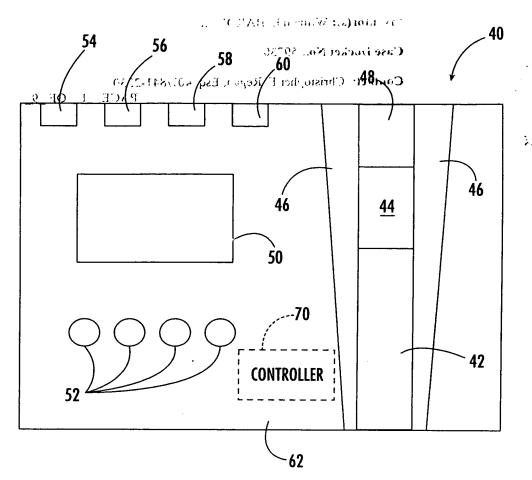
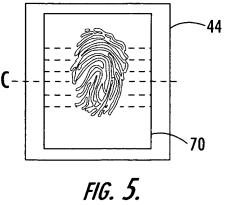
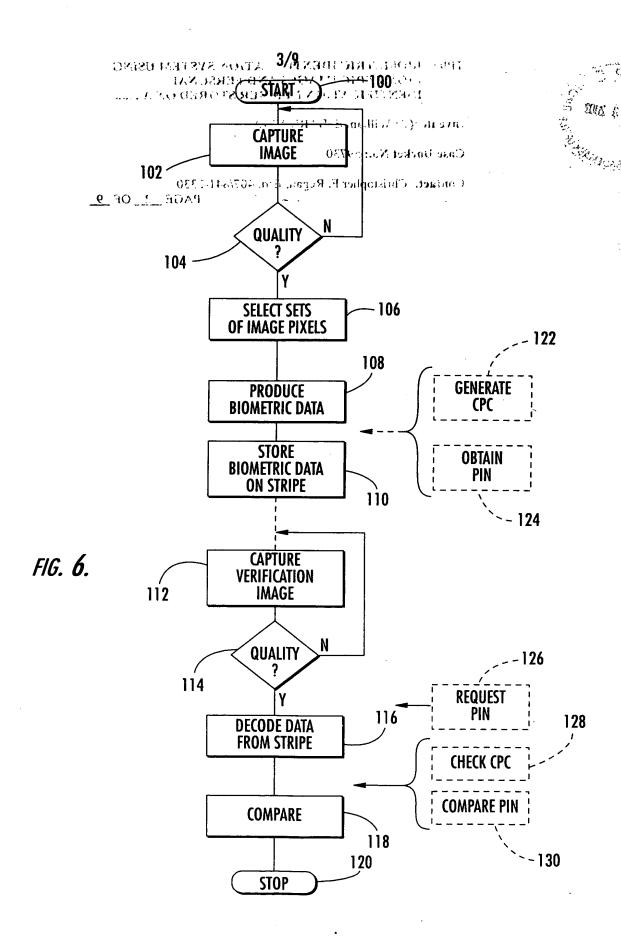


FIG. 4.





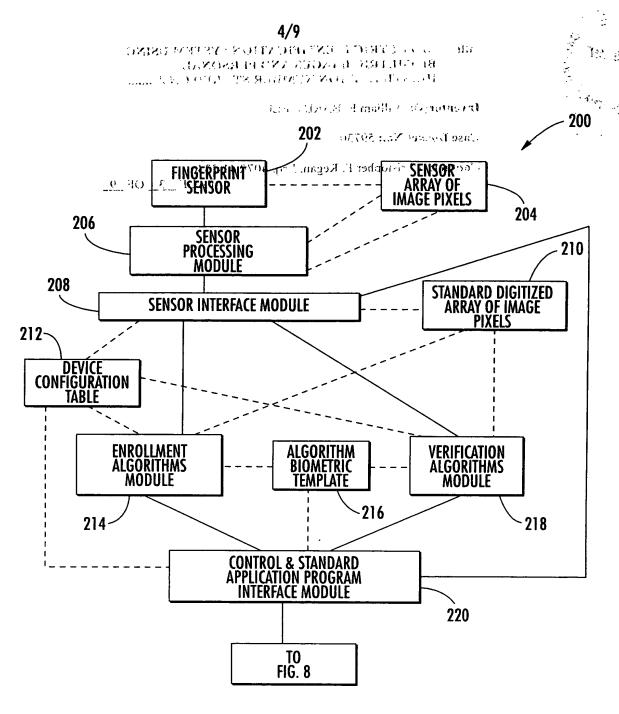


FIG. 7.

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Instance (a): A death A RANDON L. E.

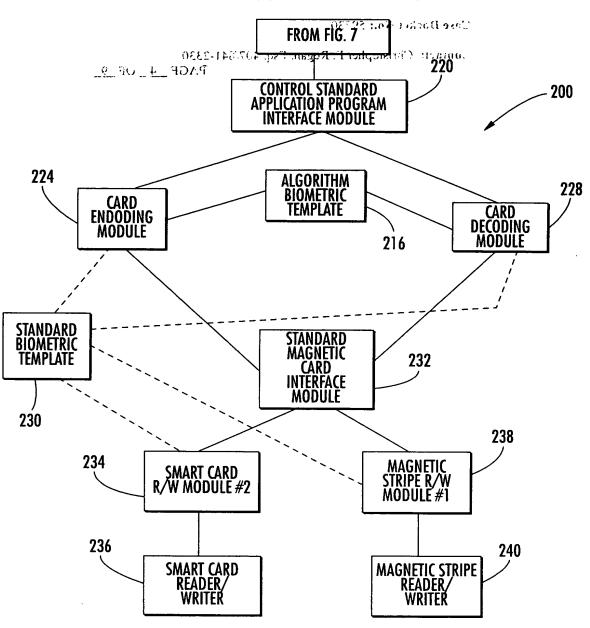


FIG. 8.

DEVICE CONFIGURATION TABLE	3000009 d 1		COMMENTS
DESCRIPTION	MODULE NAME	VALUE (ESTABLISHED"AT COMPILE TIME")	COMMENTS
DEVICE CONTROL CODE		NINE NUMERIC CHARACTERS : o < 104000 to 104000	USED FOR PREVENTING THEFT OF DEVICE ESTABLISHED AT COMPILE TIME
ENCODING APPROACH NUMBER	1:sq: 407 341-23 P	"06" TO" "P5" (O'S) 11 7	SELECTED FROM THE ENCODING APPROACH TABLE. ESTABLISHED AT COMPILE TIME
SENSOR PROCESSING MODULE	SENRXX	WHERE "XX" EQUALS "00" TO "99"	ESTABLISHED AT COMPILE TIME
ENROLLMENT/VERIFICATION ALGORITHM MODULE#	ENRLXX AND VERFXX	WHERE "XX" EQUALS "00"	DEFAULT ALGORITHM SELECTED BASED UPON THE "ENCODING APPROACH NUMBER" (SEE ABOVE)
ENROLLMENT/VERIFICATION ALGORITHM MODULE#	ENRLXX AND VERFXX	WHERE "XX" EQUALS "01" (IF "BLANK" NO ALTERNATIVE ALGORITHM EXISTS)	SECOND ALGORITHM
ENROLLMENT/VERIFICATION ALGORITHM MODULE#	ENRLXX AND VERFXX	WHERE "XX" EQUALS "02" TO "14" (IF "BLANK" NO ALTERNATIVE ALGORITHM EXISTS)	
ENROLLMENT/VERIFICATION ALGORITHM MODULE#	ENRLXX AND VERFXX	WHERE "XX" EQUALS "15" (IF "BLANK" NO ALTERNATIVE ALGORITHM EXISTS)	LAST ALGORITHM
CARD ENCODING/DECODING MODULE# (DEFAULT = "0")	ENCDXX AND DECDXX	WHERE "XX" EQUALS "00" THAT IS THE ENCODING APPROACH NUMBER	DEFAULT MODULE SELECTED BASED UPON THE "ENCODING APPROACH NUMBER" (SEE ABOVE)
CARD ENCODING/DECODING MODULE#	ENCDXX AND DECDXX	WHERE "XX" EQUALS "01" TO "14" (IF "BLANK" NO ALTERNATIVE MODULE EXISTS)	
CARD ENCODING/DECODING MODULE#	ENCDXX AND DECDXX	WHERE "XX" EQUALS "15" (IF "BLANK" NO ALTERNATIVE MODULE EXISTS)	LAST MODULE
CARD READER/WRITER MODULE# (DEFAULT="0")	CDRDXX AND CDWRXX	WHERE "XX" EQUALS "00" TO "99"	ESTABLISHED AT COMPILE TIME
COERCIVITY		FOUR NUMERIC CHARACTERS (DEFAULT= HIGH COERCIVITY)	COERCIVITY LEVEL OF MAGNETIC STRIPE WRITER
SENSOR BAUD RATE		SIX NUMERIC CHARACTERS WHERE "9600" bps IS THE DEFAULT	ESTABLISHED AT COMPILE TIME

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7/9

ON ELL CHEROLPH STION STRUCK GRING ENCODING APPROACH TABLE 2001 ACCOUNTS A CONTROL OF THE PROACH TABL

ENCODING APPROACH NUMBER (COL 1)	ENCODING MAGNETIC STRIPE TRACK	SIZE OF "BIOMETRIC TEMPLATE"	I /TRACK	(COL 5)	TRANS- LATION TABLE	(COL 7)	TRACK FORMAT
	NUMBER (S) *** (COL 2)	2.3.2 (BITS) P. (GU3)	11 (&UU-4) .ast	her F. Regan.	qo(&UL.6)***	y.: g	(COL 8)
0	1	474	79	6	0	ANSI/ISO ALPHANUMERIC	ISO
1	1	395	79	5	1	ANSI/ISO ALPHANUMERIC	ISO
2	3	428	107	4	2	ANSI/ISO NUMERIC	ISO
3]	492	82	6	0	ANSI/ISO ALPHANUMERIC	AAMVA
4	3	492	82	6	0	ANSI/ISO ALPHANUMERIC	AVMAA
5	1	410	82	5	1	ANSI/ISO ALPHANUMERIC	AVMAA
6	3	410	82	5]	ANSI/ISO ALPHANUMERIC	AAMVA
7	1	510	86	6	0	ANSI/ISO ALPHANUMERIC	AAMVA*
8	3	510	86	6	0	ANSI/ISO ALPHANUMERIC	AAMVA*
9	1	425	86	5	1	ANSI/ISO ALPHANUMERIC	AAMVA*
10	3	425	86	5	1	ANSI/ISO ALPHANUMERIC	AAMVA*
11	1	595	- 86	N/A	N/A	CUSTOM **	CUSTOM **
12	2	595	86	N/A	N/A	CUSTOM **	CUSTOM ** 210 bpi
13	3	595	86	N/A	N/A	CUSTOM **	CUSTOM **
14	2	510	86	6	0	ANSI/ISO ALPHANUMERIC	NON- STANDARD 210 bpi
15	2	428	107	4	2	ANSI/ISO NUMERIC	NON- STANDARD 210 bpi

8/9 Виолистион

STANDARD BIOMETRIC TEMPLATE:

230

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
FIELD	VALUE/SIZE	COMMENTS	
SANDARY OF SANDARY AND SANDARY OF	18: 218 8 - "622": OT "0" 189730 (31Y8\21188) Pher E. K. gan. Esq. 407. 84	RELATE TO THE ENROLLMENT/VERIFICATION OF THE PROPERTY OF THE P	TION IG Th
COPY PROTECT CODE	6 BITS (8BITS/BYTE)	SEVEN BIT LRC CHARACTER MINUS THE PARITY BIT. THE COPY PROTECT CODE IS ENBEDDED IN THE "YARDSTICK" DATA.	· · · · · · · · · · · · · · · · · · ·
"MINI-PIN"	"0" TO "999" - 10 BITS (8BITS/BYTE)	THE "MINI-PIN" IS EMBEDDED IN THE "YARDSTICK" DATA.	
ENROLL FINGER CODE	3 BITS (8BITS/BYTE)	WHERE: 0 - MIDDLE, RIGHT, 1 - INDEX, RIGHT 2 - SING, RIGHT, 3 - MIDDLE, LEFT 4 - INDEX, LEFT, 5 - RING, LEFT 6 - OTHER FINGER	
RESERVE	1 BITS (8BITS/BYTE)		
ALGORITHM BIOMETRIC TEMPLATE W/O HEADER			
DATA - "YARDSTICKS"	72 BYTES (7BITS/BYTE)	THE LAST BYTE IN EACH OF THE YARDST	ICKS
TRAILER	7 BITS (8BITS/BYTE)	- 4 BITS - EXTENDED PIN (0-9) - 3 BITS - ERROR BIT INCREMENT COUNT ((0-7) SEE TABLE BELOW)	rer
	7 BITS (8BITS/BYTE)	- 6 BITS USED FOR YARDSTICK LOCATION - 1 BIT HARD TO ENROLL FLAG	VS
TOTAL	79 BYTES (7BITS/BYTE)	DOES NOT INCLUDE CONTROL CHARACTI	ERS

FIG. 11.

ALGORITHM BIOMETRIC TEMPLATE

	FIELD	VALUE/SIZE	COMMENTS
	HEADER:	2 BYTE	HEX "01"
216	DATA - "YARDSTICKS"	60 BYTES	THE LAST BYTE IN EACH OF THE YARDSTICKS IS NOT USED
	TRAILER	1 BYTE	- 4 BITS - EXTENDED PIN (0-9) - 3 BITS - ERROR BIT INCREMENT COUNTER ((0-7) SEE TABLE BELOW)
		1 BYTE	- 6 BITS USED FOR YARDSTICK LOCATIONS - 1 BIT HARD TO ENROLL FLAG
	TOTAL	64 BYTES (8 BITS/BYTE)	

ERROR BIT RATE INCREMENT COUNTER TABLE

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CHICAGO DI IVALE ITERLETT. COOTTI	CIV IADEL	A TADITION OF THE STATE OF THE
NUMBER OF BITS THAT FAILED DURING VERIFY FOR THE YARDSTICKS PROCESSED (BASE ERROR BIT RATE + ERROR BIT INCREMENT COUNTER)	ERROR BIT INCREMENT COUNTER	COMMENTS
20 028	કવા, 40 0 લક્કા .	TYPICAL ERROR STIS INCREMENT COUNTER IF NO PIN IS USED
21 30 8 B ADAY	11	
22	2	TYPICAL ERROR BITS INCREMENT COUNTER IF PIN IS USED
23	3	TYPICAL ERROR BITS INCREMENT COUNTER IF EXT PIN IS USED
24	4	
25	5	
26	6	
27	7	

FIG. 13.

210 STANDARD DIGITIZED ARRAY OF IMAGE PIXELS

FFFFFFF		DDDDDDDD	BBBBBBBB
	GGGGGGG		
EEEEEEEE		(((((((AAAAAAA

WHERE:

- "AAAAAAAA" ARE THE GRAY SCALE FOR COLUMN O, ROW O, THE BOTTOM RIGHT CORNER OF THE IMAGE
 "BBBBBBBB" ARE THE GRAY SCALE FOR COLUMN O, ROW 255, THE TOP RIGHT CORNER OF THE IMAGE
 "CCCCCCCC" ARE THE GRAY SCALE FOR COLUMN 1, ROW 0
 "DDDDDDDDD" ARE THE GRAY SCALE FOR COLUMN 1, ROW 255
 "EEEEEEEE" ARE THE GRAY SCALE FOR COLUMN 255, ROW 0, THE BOTTOM LEFT CORNER OF THE IMAGE
 "FFFFFFFF" ARE THE GRAY SCALE FOR COLUMN 255, ROW 255, THE TOP LEFT CORNER OF THE IMAGE
 "GGGGGGGG" ARE THE GRAY SCALE FOR COLUMN 128, ROW 128 WHICH SHOULD APPROXIMATE THE CENTER OF THE SENSOR FINGERPRINT IMAGE
 8 BITS/ "CELL" WHERE "00000000" IS " NO RIDGE" ON A GRAY SCALE
 8 BITS/ "CELL" WHERE "000000001" TO "111111111" IS "RIDGE" ON A GRAY SCALE DEPENDING UPON THE SENSOR NUMBER